BRIEF DESCRIPTION
Implement or enhance rail opportunities (beyond existing planned improvements for the statewide rail network) to shift goods currently moving by truck to rail.
BRIEF DESCRIPTION
Implement or enhance waterborne opportunities to shift goods currently moving by truck to barge.
Utilize new technology like electric and automated vehicles that communicate with each other, traffic signals, and roadside infrastructure to reduce the safety and emissions impacts of large trucks as they pass through Vergennes.

**Lifecycle Greenhouse Gas Emissions for Long-Haul Heavy-Duty Trucks**

![Graph showing lifecycle greenhouse gas emissions for different vehicle technology types in the United States.](image_url)

*Source: White Paper Published by the International Council on Clean Transportation*

**Smart Freight Technology Examples**

- Weigh in motion detects heavy freight use.
- Traffic lights prioritize freight movement toward port or interstate when trucks are present.
- Sign on highway tells real-time availability of truck staging lots near facility.
- Staging Area "A".
- Traffic light gives extra yellow time to accommodate slow freight.
- Staging Area "B".
- AV trucks use dedicated truck priority lane.
- Traffic on highway.
- Trucks wait for their appointment in staging area, sensors report how many spaces are available.
- Intermodal terminal.
- U.S. DOT.

*Source: Texas Department of Transportation*

*Source: USDOT*

*Source: California Air Resources Board*

*Source: Wisconsin Clean Cities*